Honeywell

IPGSM-4GC

IP Internet & GSM (4G/3G/2G) Dual Path Communicator

General

The IPGSM-4GC is a 4G fire alarm communicator that offers contact ID reporting with any Fire Alarm Control Panel (FACP) that has a built-in dialer. This easy to install, dual path communicator connects directly to the primary and secondary communication ports of a fire panel's Digital Alarm Communicator Transmitter (DACT). It offers three selectable reporting paths which include: Cellular only, IP only, or IP primary/cellular backup. In the event of an off-normal condition, the fire panel sends contact ID formatted information to the IPGSM-4GC communicator panel. The IPGSM-4GC then reformats the data into highly encrypted Ethernet packets for transmission to the Alarm-Net receiver via customer provided Internet/Intranet connection or the GSM network.

Alternative communication methods are critical in the marketplace due to VoIP (Voice over IP), migration from POTS (Plain Old Telephone Service) and growth of digital radio networks. The IPGSM-4GC's exclusive dual-path communications solution combines Internet service with GSM for added reliability and an extra level of security. All signals from the IPGSM-4GC communicator panel are delivered to Honeywell's AlarmNet Network Control Center, which routes the information to the appropriate central station. The state of the art AlarmNet network control center is fully redundant and monitored 24/7. AlarmNet has the ability to route messages using AlarmNet-i and 800 PLUS services, providing true redundancy and multi-path message delivery.

The IPGSM-4GC is designed to operate over the most common GSM networks including 2G, 3G, and 4G. Its multi-GSM platform technology automatically chooses the best available cellular signal in the area based on signal strength and seamlessly self-adjusts to maintain critical life safety communication.

Features

- Saves the cost of two dedicated phone lines.
- Dual path communications. Can communicate to central station using Internet or cellular technology.
- Requires no change to the existing Fire Alarm Control Panel configuration. The IPGSM-4GC connects directly to the primary and secondary telephone ports.
- Multi-GSM platform compatibility for 2G, 3G, and 4G.
- Operates over the following communication protocols: HSPA+ (4G), HSPA, HSDPA & HSUPA (3G), EDGE (2G), GPRS (2G).
- Works over any type of customer provided Ethernet 10/100.
- Base network connection (LAN or WAN), DSL modem or cable modem.
- Data transmits over standard contact-ID protocol but is secured with the industry's advanced encryption standard (AES 256 bit).
- Supports both dynamic (DHCP) or Public and Private Static IP addressing.
- Built-In Power Supply module: On board charging circuit design accommodates back-up battery. Includes primary power and battery supervision.
- Diagnostic LEDs: Signal strength and status indicators.
- Reliable connection: IP and GSM connection tested every day.
- QOS: Quality of Service diagnostics via AlarmNet conveys vital communicator information including when message was received, signal strength, and message path used.
- 7720P Hand-held programmer for easy setup.

Operation

When an event occurs, the Fire Alarm Control Panel goes off hook to dial the central station. The IPGSM-4GC Dialer Capture Module detects the off-hook condition and provides the fire panel with a dial tone. When the fire panel detects the dial tone, it begins dialing the central station. After the dialing is completed, the Dialer Capture Module returns a handshake to the fire panel. The fire panel then sends the contact ID reports to the Dialer Capture Module, which in turn sends a kiss-off after the report is successfully received from the fire panel. The Dialer Capture Module sends the contact ID reports to the iGSM communications module. When all the reports are sent, the fire panel goes on-hook. The iGSM communications module then transmits the messages to the central station either over the GSM network or the Internet (primary).

Easy to Program

The IPGSM-4GC communicator can be pre-programmed using the 7720P programmer to enter all central-station information. This is saved to the IPGSM-4GC communicator panel memory. When the IPGSM-4GC communicator is installed at the site and connected to the Internet/Intranet, it registers itself with the AlarmNet receiver. This eliminates the need for a PC at the remote site for programming.

.For most installations, the only required parameters are:

- Primary City ID (two digits) obtained from your monitoring station.
- Primary Central Station ID (two digits) obtained from your monitoring station.
- Primary Subscriber ID (four digits) obtained from your monitoring station.
- Communication Module's MAC ID, and MAC CRC number located on outside of box, and inside of the module.

All of these parameters are assigned by the monitoring station.

NOTE: *Some assembly is required. See Installation and Setup Guide #800-12458 for full details.*

Panel Capabilities

The IPGSM-4GC is compatible with specific fire panels that use the Contact ID communications format as described in the SIA DC-05 standard. An additional module is required (HFS-659EN) when installing the IPGSM-4GC. See the product installation document for details.

AlarmNet

Honeywell's AlarmNet has been the nationwide leader in alarm communications technology since 1986. A reliable alternative for the transmission of alarm signals, our radio network provides extensive coverage in the United States and Canada. AlarmNet Network Control center processes signals from powerful servers in multiple locations equipped with 24/7 infrastructure support. The AlarmNet network consist of redundant hardware servers, hot back-up databases and generators with battery back-up at all locations to ensure continuity of service. Signals from Alarm-Net are transmitted to the central station's receivers using multiple communications paths consisting of the Internet, radio network or toll-free POTS service.

Installation Requirements

ULC COMPLIANCE

- IPGSM-4GC must be mounted in the same room and within 20 feet of the fire panel. The wiring must be routed through conduit.
- IPGSM-4GC, and all equipment used for the IP connection (such as the router, hub, modem, etc.) shall be listed, must be powered from an un-switched branch circuit, and be provided with appropriate standby power.
- IPGSM-4GC must use the 7AH battery (not supplied) to provide 24-hour backup capability.

NOTE: *When connecting to a fire panel a line fault monitor (Model: HFS-659EN) must be installed to monitor and report Telco troubles per the ULC requirement.*

Electrical Specifications

- Transformer: 1451-UL9.
  - Primary: 120 VAC, 60 Hz, 850mA.
  - Secondary: 18VDC, 72 VA.
- Battery
  - One 12 V 7.0 AH lead-acid battery (not supplied).
  - Battery charging current minimum 1 Amp.
  - Battery discharge current standby 230mA, active 950mA.
  - IPGSM-4GC cabinet holds one 7.0 AH battery.

Cabinet Specifications

Dimensions: 14.875" H x 12.75" W x 3.0" D (37.8 cm H x 32.4 cm W x 7.6 cm D).

Color: Red.

Shipping Specifications

Weight: 5.3 lbs. (6.94 kg).

Dimensions: 15.625" H x 13.79" W x 9.25" D (39.7 cm H x 34.9 cm W x 23.9 cm D)

Temperature and Humidity Ranges

This system meets NFPA requirements for operation at 0 - 49°C/32 - 120°F and at a relative humidity 93% ± 2% RH (non condensing at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 - 27°C/60 - 80°F.

Product Line Information

IPGSM-4GC: (For Canada only): Internet and Digital Cellular Fire Alarm Communicator Panel. Includes red cabinet with key, wall outlet box, Dialer Capture Module, iGSM Communications Module, antenna & mounting adapter, PowerBoost1 power supply, LED display board, transformer, manual, & required screws, cables, etc.

HFS-659EN: Telco line fault monitor.

GSM-ANT3DB: 3db gain external/remote antenna.

7626-50HC: 50 ft. antenna cable, low loss.

7626-25HC: 25 ft. antenna cable, low loss.

WA7626-CA: SNA to N Adapter.

7720P: IPGSM-4GC hand held programmer.

HPTCOVER: Plug in transformer box for IPGSM communicator.

BAT-1270: Battery 12 Volts, 7 AH, sealed.

Agency Listings and Approvals

The listings and approvals below apply to the basic IPGSM-4G communicator panel. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process.

Consult factory for latest listing status.

ULC Listed: S789.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.
©2013 by Honeywell International Inc. All rights reserved. Unauthorized use of this document is strictly prohibited.

Automation and Control Solutions

Honeywell

12 Clintonville Road

Northford, CT 06472-1610

www.honeywellpower.com

1(877) HPP-POWR

hpp_techserv@honeywell.com

DH-60771:A
June 2013
Made in the U.S.A.
® U.S. Registered Trademark
© 2013 Honeywell International Inc.

ISO 9001 CERTIFIED ENGINEERING & MANUFACTURING QUALITY SYSTEMS